

ABSTRACT OF THE DISCLOSURE

A spring-supported crankshaft coupling structure used in an engine and coupled between a piston and a crankshaft to enhance the output torque of the engine is disclosed to include a connector axially movably coupled to the piston by a slip joint, a stop device fixedly fastened to the piston to limit the moving distance of the connector relative to the piston, a spring member mounted in the piston and adapted to impart a downward pressure to the connector, and a connecting rod adapted to couple the connector to the crankshaft.